ABSTRACT OF THE DISCLOSURE

A content relay node comprising a data processing unit for storing or transmitting a data packet on the basis of the data attribute, a storage
5 connected to the data processing unit, transmitting units each for processing the header of a data packet in accordance with a control signal from the data processing unit and transferring the data packet to a neighboring relay node, and a routing control unit
10 for selecting the transmitting unit or the data processing unit as a destination of a data packet on the basis of routing information including a storage address, wherein the storage unit stores a copy of a data packet at least until transfer of the
15 data packet to the next node is completed.